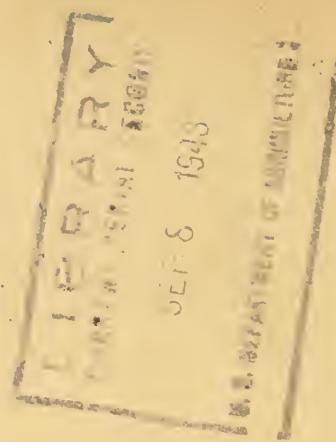


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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH ADMINISTRATION
BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

I N S E C T P E S T S U R V E Y

Special Supplement (1948, No. 7)

Issued September 10, 1948

X HESSIAN FLY SURVEY AT HARVESTTIME 1948 X

Summarized by W. B. Cartwright
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Field surveys made by the Bureau of Entomology and Plant Quarantine in cooperation with State agricultural agencies of Kansas, Oklahoma, Nebraska, Iowa, Missouri, Illinois, Ohio, New York, Pennsylvania, and New Jersey indicate that hessian fly infestations are low in California, and in a major portion of the winter-wheat belt from western Kansas to the Atlantic Coast. Moderate infestations are present, however, in southwestern Nebraska, southeastern Kansas, south-central Iowa, northern Missouri, southwestern and west-central Illinois, northeastern Ohio, western New York, Pennsylvania, Maryland, and northern Georgia. Moderate to heavy infestations are present in southwestern Iowa and New Jersey. Careful observance of the safe seeding dates is recommended, especially in the areas of moderate and moderately heavy infestations.

The data summarized in table 1 and the accompanying map indicate more fully the regions covered by the survey and the general trend of infestations.

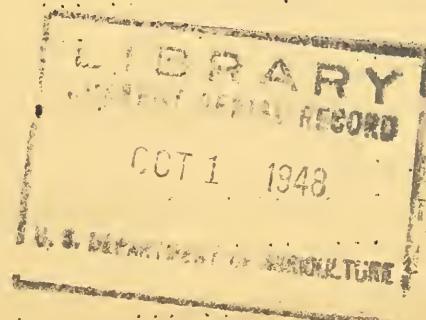


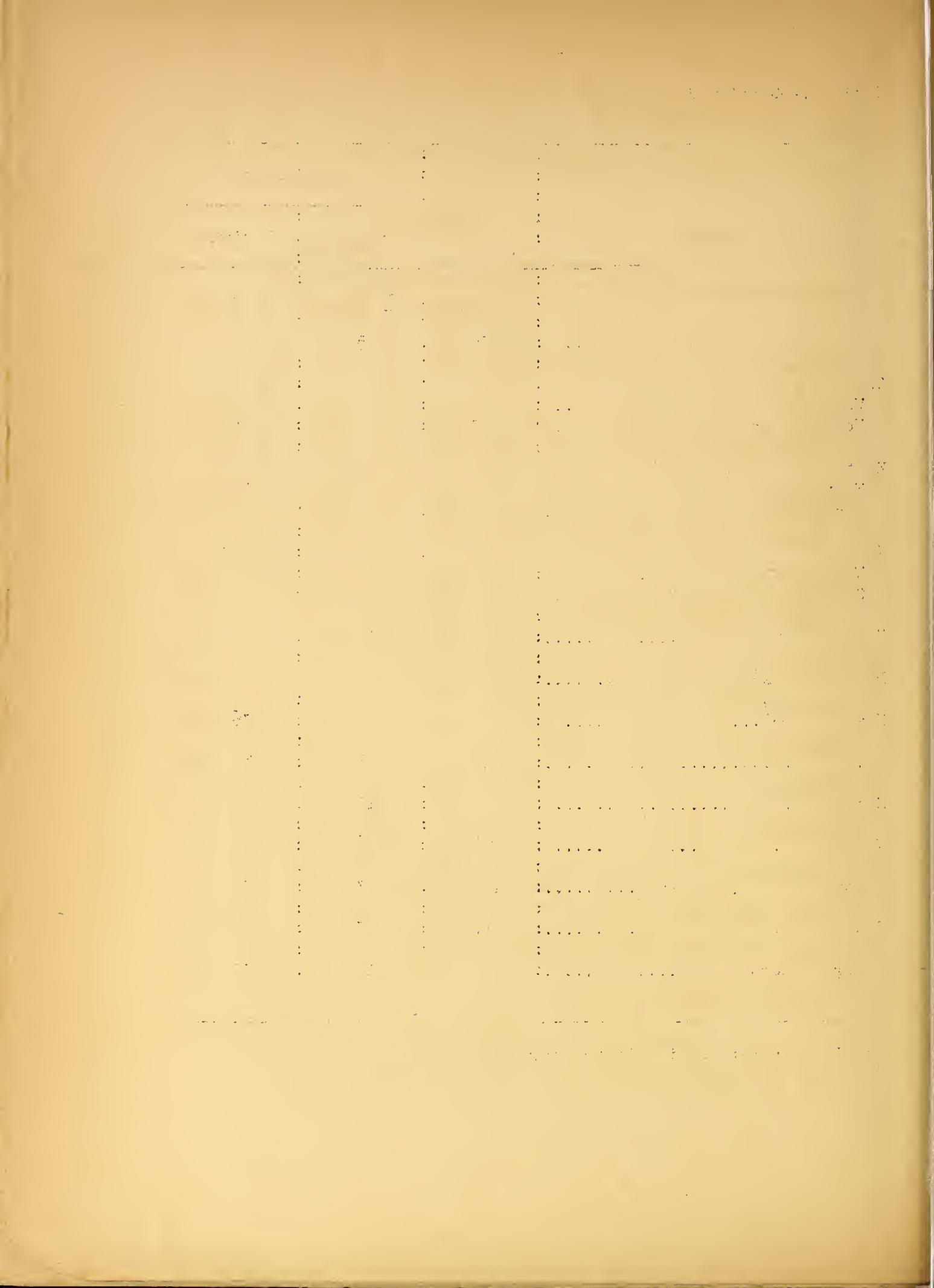
Table 1.--Hessian fly survey at harvesttime 1948.

Area	Stems infested		
	Fields sampled		
	Average	Maximum	
	Number	Percent	Percent
California	86	1	46
Nebraska: ^{1/}			
Western	5	1	2
Southwestern	44	10	68
South-central	32	8	48
Northeastern	12	4	37
Southeastern	66	2	36
Kansas: ^{1/}			
Northwestern	48	2	16
Southwestern	6	0	0
North-central	79	2	26
South-central	85	3	26
Northeastern	121	4	26
Southeastern	67	10	82
Oklahoma: ^{1/}			
Northwestern	13	Trace	2
North-central	27	1	6
Northeastern	36	2	30
Iowa: ^{1/}			
Northwestern	20	7	32
Southwestern	33	5	62
North-central	6	0	0
South-central	41	14	72
Northeastern	7	2	8
Southeastern	27	25	80
Missouri: ^{1/}			
Northwestern	71	11	72
West-central	66	7	54
Southwestern	39	6	38
Northeastern	35	15	56
East-central	41	6	40
Southeastern	11	5	18
Illinois: ^{1/}			
Southwestern and west-central	100	10	36
Eastern	82	3	14
Michigan, southern	55	3	18

Table 1.--Continued

Area	Stems infested		
	Fields sampled	Average	Maximum
	Number	Percent	Percent
Indiana	236	5	48
Ohio: ^{1/}	50	5	22
Western	69	5	22
Northeastern	40	16	56
Kentucky:			
Western	36	2	14
Eastern	25	2	10
Tennessee:			
West-central	38	1	4
South-central and east	67	2	14
New York, western ^{1/}	82	10	58
Pennsylvania ^{1/}	146	14	92
New Jersey ^{1/}	46	28	76
Delaware	14	6	18
Maryland	93	10	70
Virginia	264	6	90
North Carolina, central	147	7	70
South Carolina, western	62	8	58
Georgia, northern	88	14	80

^{1/} In cooperation with State entomologists.



HESSIAN FLY SURVEY AT HARVESTTIME 1948

Numbers indicate percentage of stems infested.
Cross-hatching indicates from moderate to heavy infestation.

